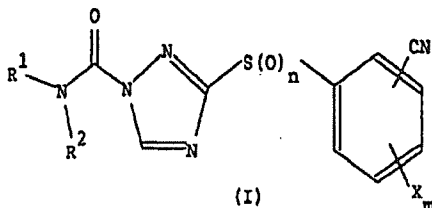


93-18/191/25 WZ
 BAYER AG
 93.11.23 93DE-4339863 (95.05.24) C07D 249/12, A01N 47/38
 Substd. carbamoyl-triazole derivs. - useful as herbicides esp.
 selective herbicides for weed control in crops (Ger)
 C95-086934 R(BE CH DE ES FR GB IT LI NL)
 Addnl. Data: ANDREE R, DOLLINGER M, SANTEL H
 94.11.10 94EP-117746

PARB 93.11.23
 *EP 654468-A1

C(7-D13, 14-UIA, 14-V2) .3

Substd. carbamoyl triazole derivs. of formula (I) are new:



m = 0-4;
 n = 0-2;
 R¹, R² = opt. substd. alkyl, alkenyl or alkynyl; or

R¹+R² = alkanediyl;
 X = halogen, OH, NH₂, SH or opt. substd. alkyl, alkoxy, alkylthio, alkylamino, alkanoylamino, alkylsulphonylamino, cycloalkoxy, cycloalkylthio, cycloalkylamino, cycloalkylalkoxy, cycloalkylalkylthio, cycloalkylalkylamino, aryloxy, arylthio, arylamino, arylcarbonyl, arylsulphonyl, arylalkyl, arylalkoxy, arylalkylthio, arylalkylamino, arylalkylcarbonyl or arylalkylsulphonyl.

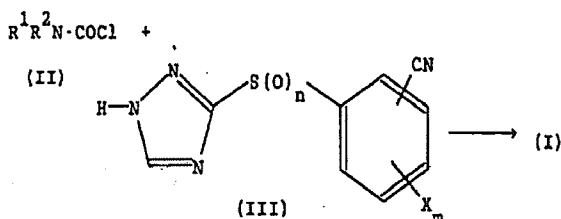
Also claimed are substd. triazoles of formula (III) (see "Preparation").

USE

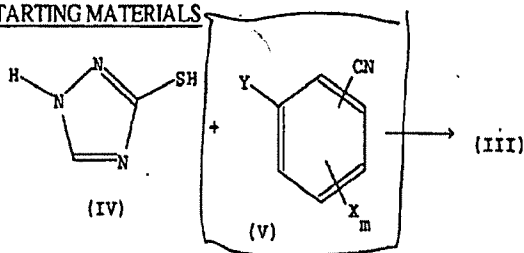
(I) are defoliants, desiccants and esp. herbicides. They are esp. suitable for the selective control of weeds in crops such as cereals, beet, soya and cotton. (III) are intermediates in the prepn. of (I).
 Suitable amts. for use are 10 g-10 kg/ha., esp. 50 g -5 kg/ha..

EP 654468-A+

PREPARATION



STARTING MATERIALS



Y = halogen.

EXAMPLE

A mixt. of 3.5 g 3-(4-cyano-2,5-difluorophenylthio)-1H-1,2,4-triazole, 2.1 g N,N-diethylcarbonic acid chloride and 20 ml pyridine were stirred for 3 days at 20 °C. The mixt. was then diluted to double vol. with water, filtered and washed with 1N HCl and water. 5.5 g (91.5% yield) 3-(4-cyano-2,5-difluorophenylthio)-1-diethylaminocarbonyl-1H-1,2,4-triazole of m.pt. 80 °C were thus obtd.

This cpd. had 80%, 90%, and 50% effectiveness against *Galium*, *Ipomoea* and *A.pecurus* resp., without harming rape or cotton plants.
 (AC)

(16pp1401DwgNo.0/0)
 SR:EP332133 EP422369

EP 654468-A

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